PE TITLE: C-17 Aircraft

RDI&E BUDGET ITEM JUS	TIFICATION SHEET (R-2 Exhibit)	February 1999
BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
7 - Operational System Development	0401130F C-17 Aircraft	2569

DATE

COST (\$ In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
2569 C-17 Aircraft	101,822	118,228	170,718	132,307	110,921	108,676	110,964	113,260	0	6,766,584
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0*

* Aircraft T-1, FY87 Funded

(U) A. Mission Description

Airlift provides essential flexibility when responding to contingencies on short notice anywhere in the world. It is a major element of America's national security strategy and constitutes the most responsive means of meeting U.S. mobility requirements. Additional airlift capability is needed for rapid deployment of combat forces in support of national objectives. Specific tasks associated with the airlift mission include deployment, employment (airland and airdrop), sustaining support, retrograde, and combat redeployment. The C-17 can perform the entire spectrum of airlift missions and is specifically designed to operate effectively and efficiently in both strategic and theater environments. The C-17 provides a vast increase in overall airlift capability necessary to replace and exceed the capabilities lost from retiring the aging C-141 fleet from the Air Force inventory. Not only can the C-17 deliver outsize cargo to austere tactical environments, but it also reduces ground time during airland operations. The C-17 will perform the airlift mission well into the 21st century. RDT&E efforts support producibility enhancements and product improvements, including correction of Operational Test & Evaluation (OT&E) deficiencies.

(U) FY 1998 (\$ in Thousands):

- Continue product improvement development & testing (U) 88,432
- Airframe durability test teardown 2,608
- PE/PI Government flight test (U) 10.782
- (U) \$101.822 Total

(U) FY 1999 (\$ in Thousands):

- (U) 100.616 Continue product improvement development & testing
- Landing Gear durability test and Landing Gear and Aircraft Durability Improvements 4,300
- PE/PI Government flight test 10,000
- 3.683 Identified as a source for SBIR
- (U) \$118.228 Total

Exhibit R-2 (PE 0401130F) Page 1 of 6 Pages Project 2569

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

DATE

February 1999

DOGET ACTIVITY - Operational System Development	PE NUMBER AND TITLE 0401130F C-17 Aircra	PROJECT 2569
(U) FY 2000 (\$ in Thousands): - (U) 121,518 Continue Product Improvement - (U) 5,200 Aircraft Durability Improvement - (U) 34,000 Open architecture hardware and manufacture and repair - (U) 10,000 PE/PI Government Flight Test - (U) \$170,718 Total		GATM requirements and diminishing sources of
producibility and performance improvements to su	ts	program has completed Milestone III and is continuing capability of the C-17 through programmed
modifications.		
oject 2569	Page 2 of 6 Pages	Exhibit R-2 (PE 0401130F)

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BUDGET ACTIVITY	lanmant				R AND TITLE	A imamaft				PROJECT
7 - Operational System Deve		`		040113	0F C-17	Aircraft				2569
(U) C. Program Change Summary (\$	s in Thousands	<u>)</u>								
								Total		
			FY 1998	FY 1999	FY	2000	FY 2001	Cost		
U) Previous President's Budget (FY 19	999 PB)		104,568	123,069	154	1,369	159,266	6,614,894		
U) Appropriated Value			110,605	119,069)					
U) Adjustments to Appropriated Value)									
a. Congressional/General Reductio			-3,742	-841						
b. SBIR/STRR			-2,307							
c. Omnibus or Other Above Thresh	hold Reprogram	1	-709							
d. Below Threshold Reprogrammir	ng (BTR)		-2,025							
U) Adjustments to Budget Years Since	FY 1999 PB				16	5,349	-26,959			
U) Current Budget Submit/FY 2000 PF			101,822	118,228	170),718	132,307	6,766,584		
(U) Significant Program Changes:										
Funding: \$1,500 in FY98 ident	tified as a sourc	e for a BTR								
The FY00 and FY01 f	funding change	s reflect a tra	ansfer to fund	d other priori	ties within t	he C-17 pro	gram.			
FY99 - \$3,683 identifi	ied as a source	for SBIR.								
II) D. Other Busyness Fronting Comme		a								
U) D. Other Program Funding Sumr	mary (\$ in Tho	<u>usands)</u>							То	Total
U) D. Other Program Funding Sumr			FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Compl	Total Cost
_	FY 1998	FY 1999	FY 2000 3 385 047	FY 2001	<u>FY 2002</u> 3 235 628	FY 2003	<u>FY 2004</u>	<u>FY 2005</u> 2 306 170	Compl	Cost
U) APAF, MYP, BA02, PE0401130F	<u>FY 1998</u> 2,130,890	FY 1999 2,891,026	3,385,047	3,368,535	3,235,628	1,914,962	1,524,732	2,306,170	Compl 0	Cost 40,328,037
U) APAF, MYP, BA02, PE0401130F U) APAF, Initial Spares, BA06,	FY 1998	FY 1999							Compl	Cost
U) APAF, MYP, BA02, PE0401130F U) APAF, Initial Spares, BA06, PE0401130F	FY 1998 2,130,890 128,194	FY 1999 2,891,026 112,011	3,385,047	3,368,535	3,235,628	1,914,962	1,524,732	2,306,170	Compl 0 0	Cost 40,328,037 848,185
U) D. Other Program Funding Summ U) APAF, MYP, BA02, PE0401130F U) APAF, Initial Spares, BA06, PE0401130F U) APAF, A/C Mods, BA05,	<u>FY 1998</u> 2,130,890	FY 1999 2,891,026	3,385,047	3,368,535	3,235,628	1,914,962	1,524,732	2,306,170	Compl 0	Cost 40,328,037
U) APAF, MYP, BA02, PE0401130F U) APAF, Initial Spares, BA06, E0401130F U) APAF, A/C Mods, BA05, E0401130F	<u>FY 1998</u> 2,130,890 128,194 39,908	FY 1999 2,891,026 112,011 55,147	3,385,047 0 95,643	3,368,535 0 107,590	3,235,628 0 133,384	1,914,962 0 135,273	1,524,732 0 185,746	2,306,170 0 253,843	Compl 0 0	Cost 40,328,037 848,185 1,108,208
U) APAF, MYP, BA02, PE0401130F U) APAF, Initial Spares, BA06, E0401130F U) APAF, A/C Mods, BA05, E0401130F	FY 1998 2,130,890 128,194	FY 1999 2,891,026 112,011	3,385,047	3,368,535	3,235,628	1,914,962	1,524,732	2,306,170	Compl 0 0	Cost 40,328,037 848,185
U) APAF, MYP, BA02, PE0401130F U) APAF, Initial Spares, BA06, E0401130F U) APAF, A/C Mods, BA05, E0401130F	<u>FY 1998</u> 2,130,890 128,194 39,908	FY 1999 2,891,026 112,011 55,147	3,385,047 0 95,643	3,368,535 0 107,590	3,235,628 0 133,384	1,914,962 0 135,273	1,524,732 0 185,746	2,306,170 0 253,843	Compl 0 0	Cost 40,328,037 848,185 1,108,208
U) APAF, MYP, BA02, PE0401130F U) APAF, Initial Spares, BA06, E0401130F U) APAF, A/C Mods, BA05, E0401130F	<u>FY 1998</u> 2,130,890 128,194 39,908	FY 1999 2,891,026 112,011 55,147	3,385,047 0 95,643	3,368,535 0 107,590	3,235,628 0 133,384	1,914,962 0 135,273	1,524,732 0 185,746	2,306,170 0 253,843	Compl 0 0	Cost 40,328,037 848,185 1,108,208
U) APAF, MYP, BA02, PE0401130F U) APAF, Initial Spares, BA06, PE0401130F	<u>FY 1998</u> 2,130,890 128,194 39,908	FY 1999 2,891,026 112,011 55,147	3,385,047 0 95,643	3,368,535 0 107,590	3,235,628 0 133,384	1,914,962 0 135,273	1,524,732 0 185,746	2,306,170 0 253,843	Compl 0 0	Cost 40,328,037 848,185 1,108,208
U) APAF, MYP, BA02, PE0401130F U) APAF, Initial Spares, BA06, E0401130F U) APAF, A/C Mods, BA05, E0401130F	<u>FY 1998</u> 2,130,890 128,194 39,908	FY 1999 2,891,026 112,011 55,147	3,385,047 0 95,643	3,368,535 0 107,590	3,235,628 0 133,384	1,914,962 0 135,273	1,524,732 0 185,746	2,306,170 0 253,843	Compl 0 0	Cost 40,328,037 848,185 1,108,208
U) APAF, MYP, BA02, PE0401130F U) APAF, Initial Spares, BA06, E0401130F U) APAF, A/C Mods, BA05, E0401130F	<u>FY 1998</u> 2,130,890 128,194 39,908	FY 1999 2,891,026 112,011 55,147	3,385,047 0 95,643	3,368,535 0 107,590	3,235,628 0 133,384	1,914,962 0 135,273	1,524,732 0 185,746	2,306,170 0 253,843	Compl 0 0	Cost 40,328,037 848,185 1,108,208
U) APAF, MYP, BA02, PE0401130F U) APAF, Initial Spares, BA06, E0401130F U) APAF, A/C Mods, BA05, E0401130F	<u>FY 1998</u> 2,130,890 128,194 39,908	FY 1999 2,891,026 112,011 55,147	3,385,047 0 95,643 6,247	3,368,535 0 107,590	3,235,628 0 133,384 0	1,914,962 0 135,273	1,524,732 0 185,746 0	2,306,170 0 253,843	Compl 0 0 0	Cost 40,328,037 848,185 1,108,208 361,278

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) BUDGET ACTIVITY 7 - Operational System Development PE NUMBER AND TITLE 0401130F C-17 Aircraft PROJECT 2569

(U) E. Acquisition Strategy

The C-17 Acquisition Strategy is based on five separate contracts to support the entire scope of the C-17 weapon system. These five contracts are: 1) a multi-year procurement (MYP) aircraft contract (to economically purchase the full complement of production aircraft) - (APAF); 2) a Producibility Enhancement and Performance Improvement (PE/PI) contract (to develop cost reduction changes, capability enhancements, and design fixes to service-revealed problems) - (RDT&E, AF); 3) a Flexible Sustainment (field support) contract (to support the current and future fielded aircraft) - (APAF); 4) a MYP engine contract (for Government Furnished Equipment [GFE] engines) - (APAF); and 5) an aircrew training systems (ATS) contract (for aircrew training) - (APAF).

The Congressionally-mandated Mobility Requirements Study (MRS), initially forwarded to Congress on 23 Jan 92 and updated on 28 Mar 95, validated the need for the C-17 aircraft. Two C-17 Defense Acquisition Board (DAB) decisions, contained in the 3 Nov 95 and 1 Feb 96 USD(A&T) Acquisition Decision Memoranda (ADMs), directed the Air Force to proceed with a 120-aircraft production program and pursue a multi-year procurement for the last 80 aircraft. The FY96 Supplemental Appropriations Act and FY97 Defense Appropriations Act approved a 7-year MYP program. The Air Force is proceeding with an 80-aircraft MYP program (along with engines to support them) to complete a 120-aircraft total purchase at the maximum affordable rate (FY97-03 Quantity: 8-9-13-15-15-5), beginning with the economic order quantity (EOQ) funding in FY96. Fourteen additional C-17s have been programmed at the end of the 80-aircraft MYP (FY03 +1, FY04 +5, FY05 +8) to meet SOF requirements not included in the 120 aircraft program. The adjusted program is: FY03, 6; FY04, 5; FY05, 8.

(U) F. Schedule Profile																
		FY 1	<u>998</u>			FY 19				FY 20	000			FY 2	<u>2001</u>	
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Lot X (9 a/c)	*															
Lot XI Adv Proc(13 a/c)		*														
Lot XI (13 a/c)					*											
Lot XII Adv Proc (15 a/c)						X										
Lot XII (15 a/c)									X							
Lot XIII Adv Proc (15 a/c)										X						
Lot XIII (15 a/c)													X			
Lot XIV Adv Proc (15 a/c)														X		
* = completed event																
X = planned event																
Project 2569				j	Page 4 d	of 6 Page	es				E	xhibit R	-2 (PE	040113	80F)	

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)											999
BUDGET ACTIVITY 7 - Operational System Development						ID TITLE C-17 Ai	rcraft		•		PROJECT 2569
(U) A. Project Co.	st Breakdown (\$ in	Thousands)									
				FY 1998	FY 199	99	FY 2000	FY 2001			
 (U) Identified as a source for SBIR (U) Open architecture (U) Contractor Furnished Engineering & Test (U) Test, Other Government Costs (OGC) 				0 0 90,942 10,880 101,822	3,66 104,04 10,56 118,22	0 45 00	0 34,000 126,718 10,000 170,718	0 0 122,307 10,000 132,307			
(U) Total (U) B. Budget Acq Performing Organi		d Planning In	formation (\$ i	ŕ	ŕ	20	170,718	132,307			
Contractor or	Contract										
Government Performing <u>Activity</u> Identified as a source	Method/Type or Funding <u>Vehicle</u> for SBIR	Award or Obligation <u>Date</u>	Performing Activity EAC	Project Office EAC	Total Prior to FY 1998	Budget FY 1998	Budget FY 1999 3,683	Budget FY 2000	Budget FY 2001	Budget to Complete	Total Program 3,683
Product Development Douglas Aircraft Douglas Aircraft Pratt & Whitney Douglas Aircraft Pratt & Whitney	CORGANIZATIONS C,FPI/FP C,CPFF C,FP C,FPI FP+EPA	8/31/81 7/13/95 5/24/91 4/14/89 4/18/95	5,190,366 1,016,277 25,346 na 8,300	5,190,366 1,016,277 25,346 na 8,300	146,633 25,346 83,885	0 88,436 0 0 2,506	0 103,645 0 0 400	160,718	122,307	0 403,821 0 0	5,190,366 1,025,560 25,346 83,885 7,906
Project 2569				Pan	e 5 of 6 Pages			Evhik	hit R_3 (PF	0401130F)	

RDT8	COST BRE	DATE February 1999									
BUDGET ACTIVITY	PE NUMBER AN			PROJECT							
7 - Operational S		0401130F	C-17 All	rcratt				2569			
Contractor or Government Performing <u>Activity</u>	Contract Method/Type or Funding <u>Vehicle</u>	Award or Obligation <u>Date</u>	Performing Activity <u>EAC</u>	Project Office <u>EAC</u>	Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget <u>FY 2000</u>	Budget FY 2001	Budget to Complete	Total <u>Program</u>
Support and Manageme Mission Support OGC Site Activation OGC Miscellaneous	nt Organizations PO PO				97,175 1,539 19,741	98 0 0	100 0 400	0 0 0	0 0 0	0 0 0	97,373 1,539 20,141
Test and Evaluation Or Combined Test Force	ganizations PO	Dec 97			216,721	10,782	10,000	10,000	10,000	40,000	297,503
Wright Labs/Arnold Eng Dev Center	PO	200,			10,252	0	0	10,000	10,000	0	10,252
Other	PO				3,030	0	0			0	3,030
Government Furnishe	ed Property: Non	e									
Identified as a source for Subtotal Product Development and Management and Evaluation Total Project	lopment Management				5,451,230 118,455 230,003 5,799,688	90,942 98 10,782 101,822	3,683 104,045 500 10,000 118,228	160,718 0 10,000 170,718	122,307 0 10,000 132,307	403,821 0 40,000 443,821	3,683 6,333,063 119,053 310,785 6,766,584
Project 2569				Pas	3,799,088 ge 6 of 6 Pages	101,022	110,220			0401130F)	0,700,304